

SMOKE DETECTION PANEL XL No.4 SCHEDULE 'A' (SINGLE ADDRESS INPUTS)				
INPUT		OUTPUT		
ADDRESS	INITIATING DEVICES	ANNUNCIATOR MESSAGES	ACTIVATED RELAYS	ACTIVATED HVAC EQUIPMENT
041101	AREA SMOKE DETECTOR	E-7-18 AREA ALARM TOWER I	POX-29-112	E-7-18 SHUTDOWN
041102	AREA SMOKE DETECTOR	ACS-7-11 AREA ALARM	POX-21-034	ACS-7-11
041103	DUCT SMOKE DETECTOR	ACS-7-11 DUCT ALARM		
041104	DUCT SMOKE DETECTOR	ACS-7-4 AREA ALARM	POX-20-021	ACS-7-4
041105	AREA SMOKE DETECTOR	ACS-7-4 DUCT ALARM		
041106	DUCT SMOKE DETECTOR	ACS-7-8 AREA ALARM	POX-21-031	ACS-7-8
041107	AREA SMOKE DETECTOR	ACS-7-8 DUCT ALARM		
041108	DUCT SMOKE DETECTOR	ACR-7-10 DUCT ALARM	POX-26-082	ACR-7-10
041109	DUCT SMOKE DETECTOR	POX-21-034	ACS-7-11	
041110	DUCT SMOKE DETECTOR	ACR-7-8 DUCT ALARM	GROUP A	GROUP A
041111	DUCT SMOKE DETECTOR	ACR-7-7 DUCT ALARM		
041112	DUCT SMOKE DETECTOR	E-7-21 DUCT ALARM	POX-30-121	E-7-21
041113	AREA SMOKE DETECTOR	SMOKE IN TEL CLOS 9 SW	SPX-13-014	ALARM STATIONS
041114	AREA SMOKE DETECTOR	SMOKE IN SUB 7S		
041115	AREA SMOKE DETECTOR			
041116	AREA SMOKE DETECTOR			
041117	MANUAL PULL STATION	PULL STATION IN SUB 7S		
041118	MANUAL PULL STATION			
041119	MANUAL PULL STATION			
041201	AREA SMOKE DETECTOR	ACS-7-10 AREA ALARM TOWER I	POX-21-033	ACS-7-10 SHUTDOWN
041202	DUCT SMOKE DETECTOR	ACS-7-10 DUCT ALARM	POX-19-014	ACS-7-3
041203	AREA SMOKE DETECTOR	ACS-7-3 AREA ALARM		
041204	DUCT SMOKE DETECTOR	ACS-7-3 DUCT ALARM	POX-20-024	ACS-7-7
041205	AREA SMOKE DETECTOR	ACS-7-7 AREA ALARM		
041206	DUCT SMOKE DETECTOR	ACS-7-7 DUCT ALARM	POX-22-041	ACS-7-12
041207	AREA SMOKE DETECTOR	ACS-7-12 AREA ALARM		
041208	DUCT SMOKE DETECTOR	ACS-7-12 DUCT ALARM	GROUP A	GROUP A
041209	DUCT SMOKE DETECTOR	ACR-7-6 DUCT ALARM		
041210	DUCT SMOKE DETECTOR	ACR-7-5 DUCT ALARM	POX-26-083	ACR-7-11
041211	DUCT SMOKE DETECTOR	ACR-7-11 DUCT ALARM	POX-22-041	ACS-7-12
041212	DUCT SMOKE DETECTOR	SMOKE IN TEL CLOS 9 SE	POX-25-071 POX-25-072 POX-25-073 POX-25-074 POX-19-014 POX-20-021 POX-20-024 POX-21-031 POX-21-033	ACR-7-5 SHUTDOWN ACR-7-6 ACR-7-7 ACR-7-8 ACS-7-3 ACS-7-4 ACS-7-7 ACS-7-8 ACS-7-10
041213	AREA SMOKE DETECTOR			
		GROUP A		
041301	AREA SMOKE DETECTOR	ACS-7-13 AREA ALARM TOWER I	POX-22-042	ACS-7-13 SHUTDOWN
041302	DUCT SMOKE DETECTOR	ACS-7-13 DUCT ALARM	POX-20-022	ACS-7-5
041303	AREA SMOKE DETECTOR	ACS-7-5 AREA ALARM		
041304	DUCT SMOKE DETECTOR	ACS-7-5 DUCT ALARM	POX-19-012	ACS-7-1
041305	AREA SMOKE DETECTOR	ACS-7-1 AREA ALARM		
041306	DUCT SMOKE DETECTOR	ACS-7-1 DUCT ALARM	POX-21-032	ACS-7-9
041307	AREA SMOKE DETECTOR	ACS-7-9 AREA ALARM		
041308	DUCT SMOKE DETECTOR	ACS-7-9 DUCT ALARM	POX-26-084	ACR-7-12
041309	DUCT SMOKE DETECTOR	ACR-7-12 DUCT ALARM	POX-22-042	ACS-7-13
041310	DUCT SMOKE DETECTOR	ACR-7-1 DUCT ALARM	GROUP B	GROUP B
041311	DUCT SMOKE DETECTOR	ACR-7-2 DUCT ALARM		
041312	DUCT SMOKE DETECTOR	ACR-7-9 DUCT ALARM	POX-21-032	ACS-7-9
041313	DUCT SMOKE DETECTOR	E-7-20 DUCT ALARM	POX-26-081	ACR-7-9
041314	AREA SMOKE DETECTOR	SMOKE IN TEL CLOS 9 NW	POX-29-114	E-7-20
041315	AREA SMOKE DETECTOR	SMOKE IN SUB 7N	SPX-14-024	ALARM STATIONS
041316	AREA SMOKE DETECTOR			
041317	AREA SMOKE DETECTOR			
041318	MANUAL PULL STATION	PULL STATION IN SUB 7N		
041319	MANUAL PULL STATION			
041320	MANUAL PULL STATION			
041401	AREA SMOKE DETECTOR	ACS-7-6 AREA ALARM TOWER I	POX-20-023	ACS-7-6 SHUTDOWN
041402	DUCT SMOKE DETECTOR	ACS-7-6 DUCT ALARM	POX-19-013	ACS-7-2
041403	AREA SMOKE DETECTOR	ACS-7-2 AREA ALARM		
041404	DUCT SMOKE DETECTOR	ACS-7-2 DUCT ALARM	POX-22-043	ACS-7-14
041405	AREA SMOKE DETECTOR	ACS-7-14 AREA ALARM		
041406	DUCT SMOKE DETECTOR	ACS-7-14 DUCT ALARM	GROUP B	GROUP B
041407	DUCT SMOKE DETECTOR	ACS-7-14 DUCT ALARM		
041408	DUCT SMOKE DETECTOR	ACS-7-14 DUCT ALARM	POX-22-043	ACS-7-14
041409	DUCT SMOKE DETECTOR	ACR-7-3 DUCT ALARM		
041410	DUCT SMOKE DETECTOR	ACR-7-4 DUCT ALARM	GROUP B	GROUP B
041411	DUCT SMOKE DETECTOR	ACR-7-13 DUCT ALARM	POX-22-043	ACS-7-14
041412	DUCT SMOKE DETECTOR	E-7-19 DUCT ALARM	POX-27-091	ACR-7-13
041413	DUCT SMOKE DETECTOR	E-7-17 DUCT ALARM	POX-29-113	E-7-19
041414	AREA SMOKE DETECTOR	SMOKE IN TEL CLOS 9 NE	POX-29-111	E-7-17
		GROUP B	POX-24-061 POX-24-062 POX-24-063 POX-24-064 POX-19-012 POX-19-013 POX-20-022 POX-20-023 POX-21-032	ACR-7-1 SHUTDOWN ACR-7-2 ACR-7-3 ACR-7-4 ACS-7-1 ACS-7-2 ACS-7-5 ACS-7-6 ACS-7-9
042101	TAMPER SWITCH	TAMPER SWITCH 7 MER TWR I	N/A	N/A
042102	WATER FLOW SWITCH	WATER FLOW 7 MER	N/A	N/A
042103	PURGE SWITCH 7 NE	BY-PASS ACTIVATED 7NE	N/A	N/A
042104	PURGE SWITCH 7 NW	BY-PASS ACTIVATED 7NW	N/A	N/A
042105	PURGE SWITCH 7 SE	BY-PASS ACTIVATED 7SE	N/A	N/A
042106	PURGE SWITCH 7 SW	BY-PASS ACTIVATED 7SW	N/A	N/A

SMOKE DETECTION PANEL XL No.4 SCHEDULE 'B' (DUAL ADDRESS INPUTS)						
INPUT			OUTPUT			REMARKS
ADDRESS No. 1	ADDRESS No. 2	INITIATING DEVICES	RESULTING ADDRESS	ANNUNCIATOR MESSAGES	ACTIVATED RELAYS	
041102	041103	POX-31-133	041129	SOL VALVE ACS-7-11 TWR I	SPX-16-044	DELUGE SOL VALVE ACS-7-11 RETURN AIR FAN ACR-7-10 SHUTDOWN
041102	041104	INTERFACE MODULE TRX-2R-4-9			POX-26-082	
041105	041106	POX-31-131	041130	SOL VALVE DUMP 7 SOUTH TWR I	SPX-15-031	DELUGE SOL VALVE ACS-7-4 GROUP C
041107	041108				GROUP C	DELUGE SOL VALVE ACS-7-8 GROUP C
041201	041202	INTERFACE MODULE	041230	SOL VALVE ACS-7-12 TWR I	SPX-16-041	DELUGE SOL VALVE ACS-7-10 GROUP C
041203	041204	TRX-2R-4-7			GROUP C	DELUGE SOL VALVE ACS-7-3 GROUP C
041205	041206				SPX-14-023	DELUGE SOL VALVE ACS-7-7 GROUP C
041207	041208	POX-31-134			SPX-15-034	DELUGE SOL VALVE ACS-7-7 GROUP C
041207	041209	INTERFACE MODULE TRX-2R-4-10			GROUP C	
					POX-25-071 POX-25-072 POX-25-073 POX-25-074 POX-19-014 POX-20-021 POX-20-024 POX-21-031 POX-21-033	RETURN AIR FAN ACR-7-5 SHUTDOWN RETURN AIR FAN ACR-7-6 RETURN AIR FAN ACR-7-7 RETURN AIR FAN ACR-7-8 SUPPLY FAN ACS-7-3 SUPPLY FAN ACS-7-4 SUPPLY FAN ACS-7-7 SUPPLY FAN ACS-7-8 SUPPLY FAN ACS-7-10
041301	041302	POX-32-141	041329	SOL VALVE ACS-7-13 TWR I	SPX-17-052	DELUGE SOL VALVE ACS-7-13 RETURN AIR FAN ACR-7-12 SHUTDOWN
041303	041304	INTERFACE MODULE TRX-2R-4-11	041330	SOL VALVE DUMP 7 NORTH TWR I	POX-26-084	
041305	041306	POX-31-132			SPX-15-032	DELUGE SOL VALVE ACS-7-5 GROUP D
041307	041308	INTERFACE MODULE			SPX-14-021	DELUGE SOL VALVE ACS-7-1 GROUP D
041401	041402	TRX-2R-4-8			SPX-16-042	DELUGE SOL VALVE ACS-7-9 GROUP D
041403	041404				SPX-15-033	DELUGE SOL VALVE ACS-7-6 GROUP D
041405	041406	POX-32-142	041430	SOL VALVE ACS-7-14 TWR I	SPX-14-022	DELUGE SOL VALVE ACS-7-2 GROUP D
041405	041107	INTERFACE MODULE TRX-2R-4-12			GROUP D	
041405	041408				POX-24-061 POX-24-062 POX-24-063 POX-24-064 POX-19-012 POX-19-013 POX-20-022 POX-20-023 POX-21-032	RETURN AIR FAN ACR-7-1 SHUTDOWN RETURN AIR FAN ACR-7-2 RETURN AIR FAN ACR-7-3 RETURN AIR FAN ACR-7-4 SUPPLY FAN ACS-7-1 SUPPLY FAN ACS-7-2 SUPPLY FAN ACS-7-5 SUPPLY FAN ACS-7-6 SUPPLY FAN ACS-7-9



THE PORT AUTHORITY
OF NY & NJ

James A. Kelly
ENGINEER OF DESIGN E.D.D., PORTS AND
WORLD TRADE
CHIEF ELECTRICAL ENGINEER

Engineering Department
Design Divisions

World
Trade
Center

Title
TOWER M.E.R'S
SPRINKLER INSTALLATION
AND MODIFICATION
TO SMOKE DETECTION
SYSTEM

ELECTRICAL

SMOKE DETECTION PANEL
XL No.4 ANNUNCIATOR
MESSAGE AND
SHUTDOWN SCHEDULE

No. Date Revision Approved

This drawing subject to conditions in contract.
All inventions, ideas, designs and methods
herein are reserved to Port Authority and
may not be used without it's written consent.

DaCOSTA/
AVENOSO AVENOSO PALANGO
Designed by Drawn by Task Leader

Checked by *[Signature]*

Date 5-15-90 Scale NONE

Contract Number Drawing Number

WTC 499.18 E-15